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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/539,687	07/14/2005	Richard David Saunders	UDL27.001APC	8588

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EXAMINER

BURNEY, RACHEL L

ART UNIT	PAPER NUMBER
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1795

NOTIFICATION DATE	DELIVERY MODE
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06/07/2010

ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Office Action Summary	Application No. 10/539,687	Applicant(s) SAUNDERS ET AL.	
	Examiner Rachel L. Burney	Art Unit 1795	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 17 May 2010.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 9-33 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 9-33 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 9-19, 22-30, and 33 are rejected under 35 U.S.C. 103(a) as being unpatentable over WO 00/78556 (Dukler) in view of US Patent 4148968 (Nagashima).

Dukler discloses a method of printing on documents a visible or invisible image (page 3, paragraph 5), wherein the method includes a liquid toner (page 4, paragraph 1), which is used in a digital printing process (page 4, paragraph 5). The toner may produce multiple combinations of markers (page 6, paragraph 3). The labeling dyes may comprise rhodamine dyes as the luminescent material (page 5, paragraph 4 - page 6, paragraph 1). The dye may produce a halo superimposed with the original image (page 9, paragraph 2). Dukler fails to disclose a chemical reactant in the substrate.

Nagashima discloses an electrophotographic methods which comprises developing a latent image with a charged toner particle containing a color forming agent (A) to a image receiving sheet containing a color forming agent (B) and heating to cause a thermal color forming reaction between the color forming

Art Unit: 1795

agents (column 3, lines 42-53). The color forming agent (B) may be a phenol polymer (column 2, lines 62-68). The toner may comprise a rhodamine dye (column 32, lines 65-67). The method may form a toner image which is completely fixed and can be obtained without any waiting time (column 2, lines 9-13).

It would have been obvious to one of ordinary skill in the art at the time of the invention to use the chemical reaction of Nagashima for one of the image layers of Dukler so that the image is completely fixed and is obtained with no waiting time.

3. Claims 20, 21, 31 and 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over WO 00/78556 (Dukler) in view of US Patent 4148968 (Nagashima) as applied to claims 9 and 16 above, and further in view of US PGPub 2003/0068575 (Yanaka).

Dukler and Nagashima disclose the system of claims 9 and 16 as discussed above, wherein the dye may be a Rhodamine B (Dukler, page 5, paragraph 4 - page 6, paragraph 1), but fail to teach the use of the specific dyes. Yanaka discloses a toner which uses leuco dyes, which may be Rhodamine B or 3,3-bis(p-dimethylaminophenyl)-6-dimethylaminophthalide (PP 0013). It would have been obvious to one of ordinary skill in the art at the time of invention to use the 3,3-bis(p-dimethylaminophenyl)-6-dimethylaminophthalide of Yanaka for the Rhodamine B of Dukler and Nagashima because Yanaka teaches that they are functionally equivalent. The substitution of known equivalent structures involves

Art Unit: 1795

only ordinary skill in the art. *In re Fout* 213 USPQ 532 (CCPA 1982); *In re Susi* 169 USPQ 423 (CCPA 1971); *In re Siebentritt* 152 USPQ 618 (CCPA 1967); *In re Ruff* 118 USPQ 343 (CCPA 1958). When a patent claims a structure already known in the prior art that is altered by the mere substitution of one element for another known in the field, the combination must do more than yield a predictable result.

Response to Arguments

4. Applicant's arguments, see pages 7-9, filed 05/17/2010, with respect to the rejection(s) of claim(s) 9-33 under Miller and Hsu have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made as discussed above.

Conclusion

5. Finality is hereby withdrawn.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rachel L. Burney whose telephone number is (571)272-9802. The examiner can normally be reached on Mon-Thurs: 7:30-6:00 PM, EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Huff can be reached on 571-272-1385. The fax

Art Unit: 1795

phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Mark F. Huff/
Supervisory Patent Examiner, Art Unit 1795

RLB